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# **National Weather Service 4<sup>th</sup> Quarter Review 2000**

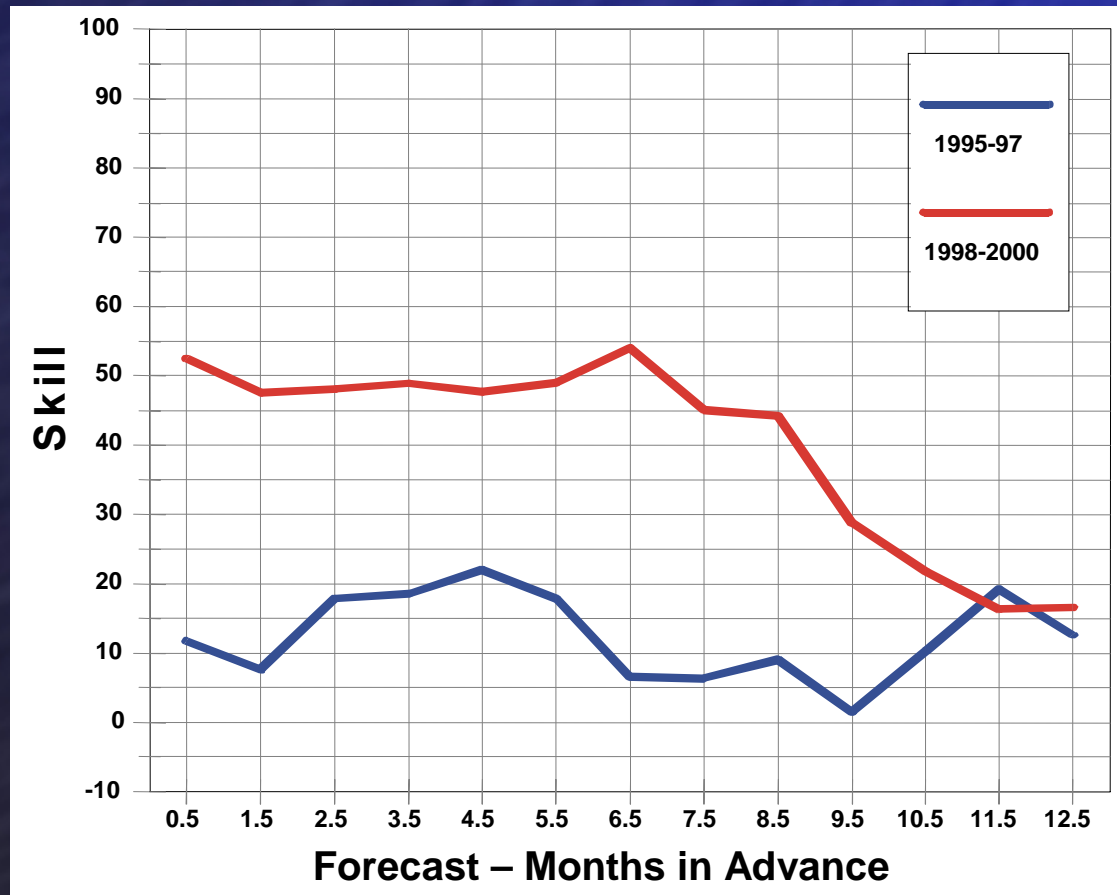
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**December 7, 2000**

# Performance

## *Recent Winter Forecasts*

**Skill Increases Partly Result from Better Measurements of El Nino/La Nina using Satellite Measurements of Temperatures, Sea Level, & Rainfall**



Action Item  
Checklist

# Action Items

Milestones &  
Accomplishments

Resources

Budget

FTE's

Workforce  
Demographics

Infrastructure

Management  
Challenges,  
Issues,  
Problems

Reports

EEO

Diversity

Upcoming

**Review**

**Status**

**Action Item**

**2nd**

**Ongoing**

Coordinate with NOS about site for Key West WFO

**3rd**

**Completed**

What is the status of Secretary Babbitt's group on national wildfires?  
What is the scope/goals of the group?

**3rd**

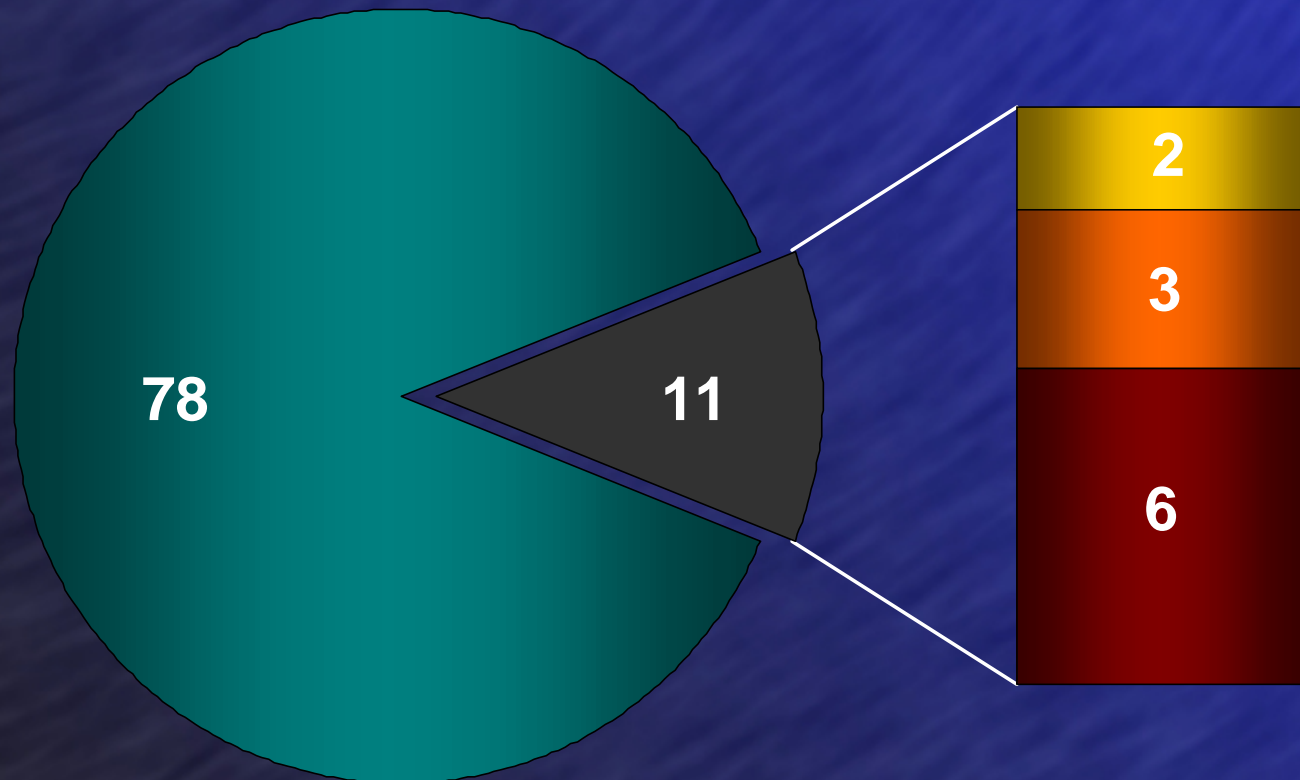
**Ongoing**

Prepare a report to White House on activities related to the FY 2000 wildfire season

# Milestones & Accomplishments

*Summary Status - 88% of Milestones Completed*

- **Completed 78 of 89 Milestones**



# Milestones & Accomplishments

## *Significant Milestones Completed*

- **Deliver Better Products and Services**

- ***Issued 14 Day Extreme Heat Index Outlook [3<sup>rd</sup>]***
- ***Extended Threats Assessment Outlook from 10 to 14 days [3<sup>rd</sup>]***
- ***Extended Precipitation Forecast Guidance Product from Two to Three Days [3<sup>rd</sup>]***
- ***Issued 48 Hour Probabilistic Winter Weather Guidance Product for Snow and Ice [2<sup>nd</sup>]***
- ***Expanded “StormReady” Program [4<sup>th</sup>]***
- ***Expanded Advanced Hydrologic Prediction Service Products [4<sup>th</sup>]***
- ***Expanded EMWIN to entire Pacific Basin [3<sup>rd</sup>]***



# Milestones & Accomplishments

## *Significant Milestones Completed*

- **Capitalize on Scientific & Technological Advances**
  - ***Completed Commissioning of AWIPS [4th]***
  - ***Increased Resolution of Global Forecast Model (105 km to 75 km) [2nd]***
  - ***Increased Resolution of Regional (ETA) Forecast Model (32 km to 22 km) [4th]***
  - ***Issued Report on Utility of GOES Sounder Data in Preparing Local Forecasts and Warnings [2nd]***
  - ***Issued Report of Use of Aircraft Observations and Other Data to Reduce Number of Radiosonde Observations [3rd]***
  - ***Provided Advanced Meteorology Training (COMET) to 300 NWS Field Forecasters [4th]***

# Milestones & Accomplishments

## *Significant Milestones Completed*

- **Exercise Global Leadership**
  - ***Developed Hurricane Mitch Reconstruction Plan for Central America [2nd]***
  - ***Began collection and distribution of Canadian radar data [3rd]***
  - ***Developed Spanish language Internet Home Pages for Meteorological Services of six Central American Counties [2nd]***
  - ***Hosted 25 Meteorologists from 12 Countries at NCEP's International Training Desk [4<sup>th</sup>]***
  - ***Provided Flood Forecast Products for Rio Grande Basin to Mexican Weather Agency [4<sup>th</sup>]***



# Milestones & Accomplishments

## *Significant Milestones Completed*

- **Change the NWS Organizational Culture**
  - ***Expanded the number of “Diversity Change Agents” [3<sup>rd</sup>]***
  - ***Completed Education Outreach Visits at 10 Minority Serving Institutions [4<sup>th</sup>]***
  - ***Recruited 48 Students Through Summer Intern Programs (Goal 30) [4<sup>th</sup>]***
  - ***Developed proficiency standards for all operational positions at WFOs, RFCs, CWSUs, and NCEP Service Centers [4<sup>th</sup>]***
  - ***Provided Team Training to 220 Employees in 11 Offices [4<sup>th</sup>]***

# Milestones & Accomplishments

## *Significant Milestones Completed*

- **Manage NWS Resources**
  - ***Developed Telecommunications Strategic Plan [3<sup>rd</sup>]***
  - ***Submitted Reprogramming for NWS Headquarters Realignment (Approved 4<sup>th</sup> Qtr.) [2<sup>nd</sup>]***
  - ***Moved Class VIII Supercomputer to Bowie Computer Center [1<sup>st</sup>]***
  - ***Created a Chief Information Officer (CIO) Office [2<sup>nd</sup>]***
  - ***Completed Cost Accounting Pilot for Central Region [2<sup>nd</sup>]***
  - ***Began Cost Accounting Project on NOAA Weather Radio [4<sup>th</sup>]***
  - ***Completed Assessment for Implementing Performance-Based Budgeting [3<sup>rd</sup>]***

# Milestones & Accomplishments

## *Significant Accomplishments*

- **Service**

- ***Wildfires in Southwest and Western U. S.***
- ***Began Routine Issuance of Climate Outlooks***
  - **Winter Weather Outlook**
  - **Drought Outlook**
  - **Hurricane Outlook**
- ***February Georgia Tornadoes***
- ***March Texas Tornadoes***

- **Organization**

- ***Established an Office of Strategic Planning and an Office of Communication***
- ***Established Corporate Investment Review Board***
- ***Established a Senior Leadership Potential Program***



# Milestones & Accomplishments

## *Milestones Not Completed*

### Milestones

### Status

**Extend Public Weather Forecasts From Five to Seven Days [4<sup>th</sup>]**

**Completed November 2000**

**Complete Project Plan and Acquisition Approach for Key West Weather Forecast Office [2<sup>nd</sup>]**

**Analysis ongoing regarding site selection**

**Modify the Current NOAA Weather Radio Plan to Identify High Risk Communities and Prioritize Areas Lacking Coverage [4<sup>th</sup>]**

**Analyzing and Prioritizing Severe Weather Data**

**Complete Evaluation of Airport Specific Amendment Criteria for Terminal Aerodrome Forecasts [4<sup>th</sup>]**

**Delayed Due to Unanticipated Problems With FAA Employees Union**

**Procure 70 Computer/Data Processing Workstations for Radiosonde Replacement System [4<sup>th</sup>]**

**Waiting for Implementation Of New Software**

# Milestones & Accomplishments

## Milestones Not Completed

### Milestones

### Status

Procure Necessary Computer Hardware to Retrofit Radar Product Generator on 50 WSR-88Ds [4<sup>th</sup>]

Delayed Due to Bankruptcy of SIMPACT

Complete Bilateral Agreements with Singapore, Vietnam, and Korea [4<sup>th</sup>]

Korea: *Completed*  
Singapore & Vietnam:  
*Unresolved Issues.*  
*Signing Date 2<sup>nd</sup> Qtr. 2001*

Develop Recommendation (as part of the Overall NOAA Study) to Improve NWS Budget Structure [2<sup>nd</sup>]

Awaiting Next Steps from NOAA

Complete Five Additional Office Closure Certifications [4<sup>th</sup>]

Delayed in Congress



Increase Representation of Women and Minorities by 1% [4<sup>th</sup>]

1% for Women Completed 11/00



Use DOC's Placement Assessment Survey for Graduating Meteorologists and Hydrologists [4<sup>th</sup>]

No Assessment Completed

# Resources - Budget

## ***FY 2000 Obligations*** ***(Dollars in thousands)***

	Plan	Actual	Delta	Percent
<b>ORF</b>	\$553,974	\$552,236	-\$1,738	99.7%
<b>PAC</b>	\$50,040	\$47,377	-\$2,663	94.7%
<b>Total</b>	\$604,014	\$599,613	-\$4,401	99.2%

### **ORF**

- ***FTS Costs Lower than Anticipated***
- ***Labor Lapse Higher than Anticipated***



### **PAC**

- ***HVAC Contracts Deferred Until FY 2001***
- ***Facilities Project Carryover***



# Resources - FTEs

## *FY 2000 FTE Utilization*

	Plan	Actual	Delta
ORF	4,605	4,586	-19
PAC	30	53	+23
Reimbursables	104	209	+105
Total Appropriations	4,739	4,848	+109

# Resources - Workforce Demographics

## *NWS Representation*



	<b>FY 1998 Actual</b>	<b>FY 1999 Actual</b>	<b>FY 2000 Actual</b>	<b>FY 2001 Target</b>
<b>Men</b>	<b>3942</b>	<b>4046</b>	<b>3995</b>	<b>3963</b>
<b>Women</b>	<b>746</b>	<b>776</b>	<b>809</b>	<b>819</b>
<b>Non-Minorities</b>	<b>4190</b>	<b>4294</b>	<b>4259</b>	<b>4231</b>
<b>Minorities</b>	<b>498</b>	<b>528</b>	<b>545</b>	<b>551</b>

# Resources - Infrastructure

## *Identified 163 Critical Infrastructure Resources*

### **Vulnerability Assessments (88% Completed)**

- 143 Completed***
- 20 Were Scheduled by NOAA via NSA for Review***
- NSA Backed up; NOAA working on schedule for in-house effort***

### **Contingency/ Disaster Recovery Plan (All Exist, But Require Changes)**

- All Exist But Require Review for PDD-63 Compliance***
- Dependent on Vulnerability Assessments***

# Congressional, GAO, and IG Reports

## *Congressional Reports*

- **AWIPS Build 5.0 Report – 4<sup>th</sup> Quarter**
- **NOAA Weather Radio Transmitter (Melba, MS)**
- **NOAA Weather Radio Transmitters (Illinois/Southern Missouri)**

# Congressional, GAO, and IG Reports

GAO	OIG
<ul style="list-style-type: none"><li>• <b>USAID</b></li><li>• <b>U.S. Assistance to Micronesia and Marshall Islands</b></li></ul>	<ul style="list-style-type: none"><li>• <b>WFO Inspections</b></li><li>• <b>NWS Weather Observer Program</b></li><li>• <b>National Data Buoy Center</b></li></ul>

# EEO Accomplishments

- **Increased Representation of Women and Minorities**
- **Baselined Workforce Demographics**
- **Expanded Relationship with Minority Serving Institutions**
- **Exceeded Participation in NOAA's Student Intern Program**
- **Installed Specialized Computer Equipment for Visually Impaired Employees**
- **Conducted Monthly Status Meetings on Workforce Demographics**



# Diversity Accomplishments

- Received “Managing Diversity” Awards
- Provided Diversity Training Opportunities to all NWS Employees
- Increased Number of NWS Diversity Change Agents/Consultants
- Provided Team Training to 220 Employees in 11 Offices
- Produced Diversity/Recruitment Video Entitled “Water Works: Careers in Hydrology”
- Translated “Flood Warning Systems – Saving Lives and Property” to Spanish



# Upcoming Activities (1st Qtr.)

- **Complete Assessment and Draft White House Report of FY 2000 Fire Weather Services**
- **Implement Major Processor Upgrade (Phase II) to Class VIII Supercomputer**
- **Extend Public Weather Forecasts from Five to Seven Days**
- **Begin Daily Issuances of the 6 - 10 Day and Week 2 Outlooks in Probabilistic Format**
- **Central American Trip**
- **GAO Follow-Up Review on NWS Modernization**
- **OIG Inspection of San Angelo WFO**

Action Item  
Checklist

Milestones &  
Accomplishments

Resources

- Budget
- FTE's
- Workforce  
Demographics
- Infrastructure

Management  
Challenges,  
Issues,  
Problems

Reports

EEO

Diversity

Upcoming

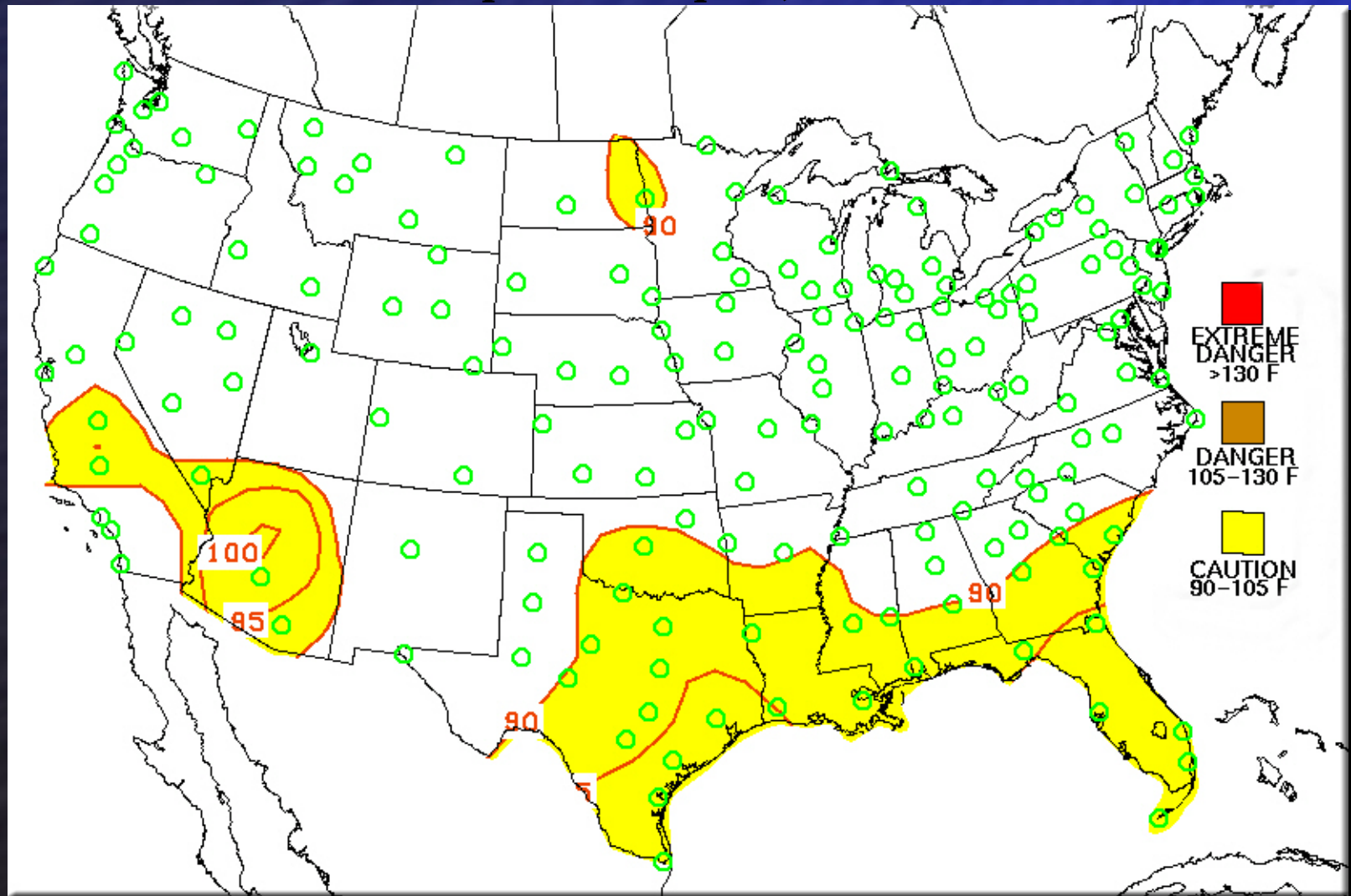
# Management Challenges, Issues, Problems

- Long Term Continuing Resolution
- FAA ASOS Augmentation
- Bowie Computer Facility
- Central Region Relocation to NWS Training Center

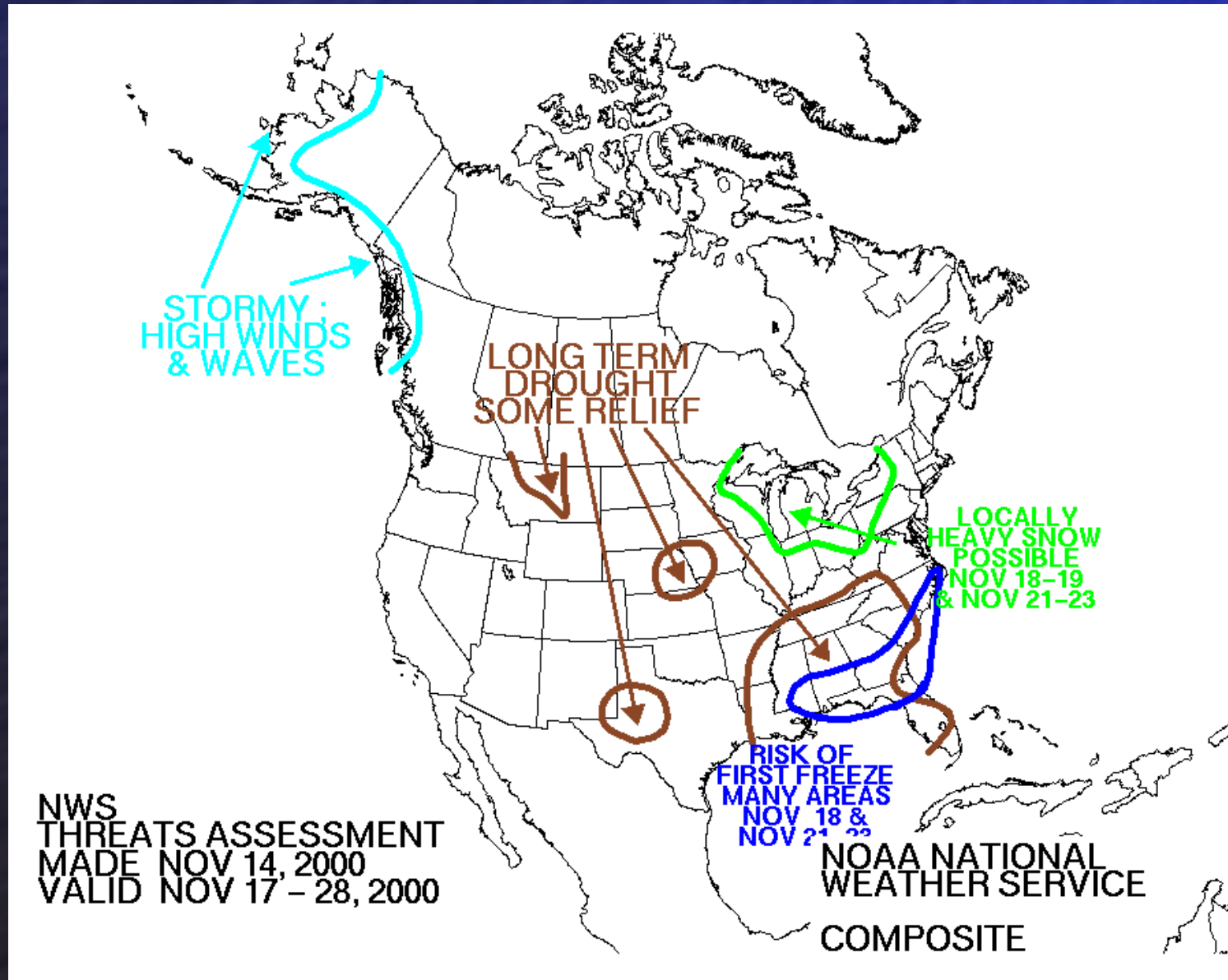
# 8 - 14 Day Extreme Heat Index (EHI)\* Outlook

*SEP 15 - 21, 2000*

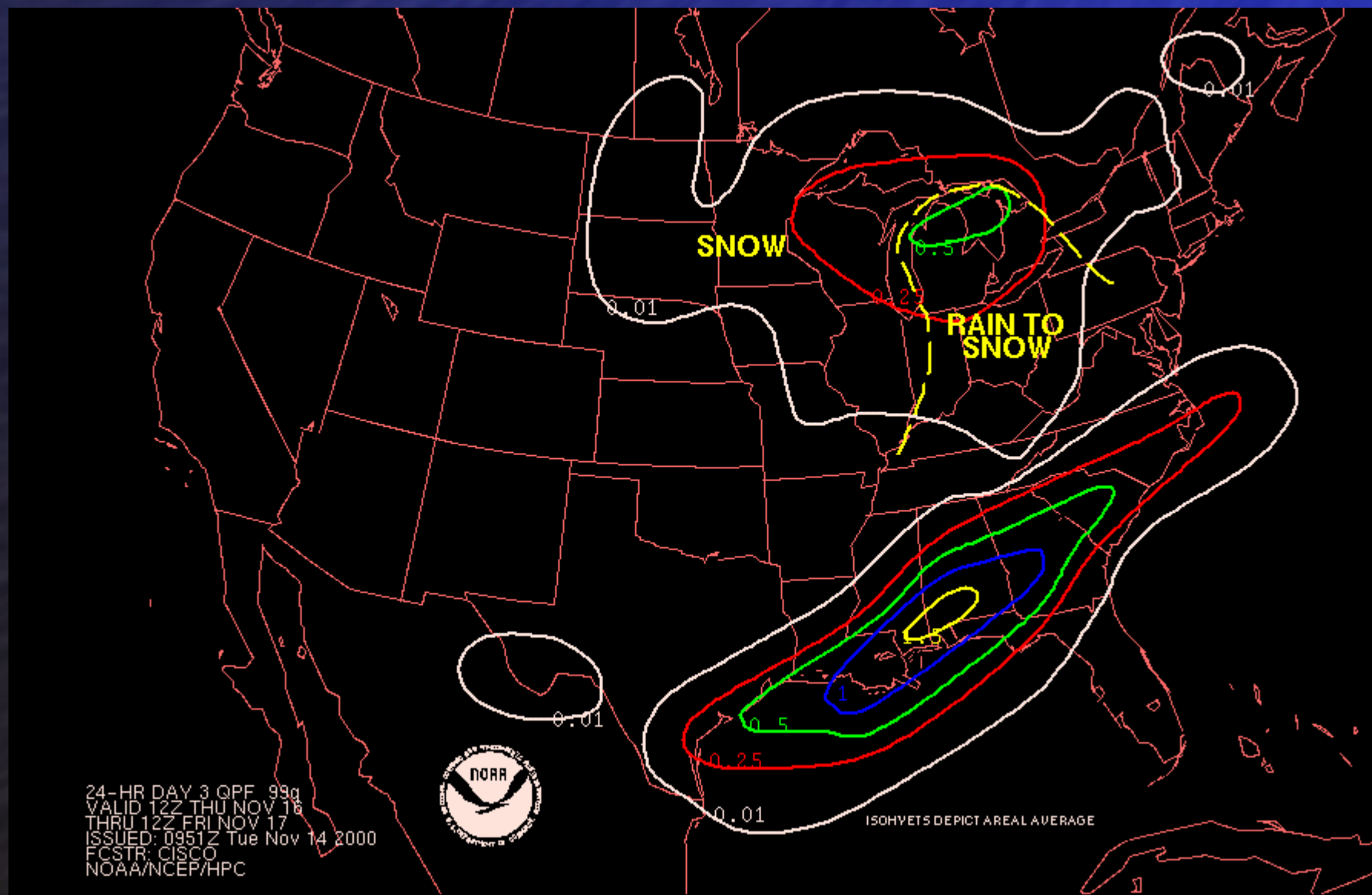
*Updated: Sep 07, 2000*



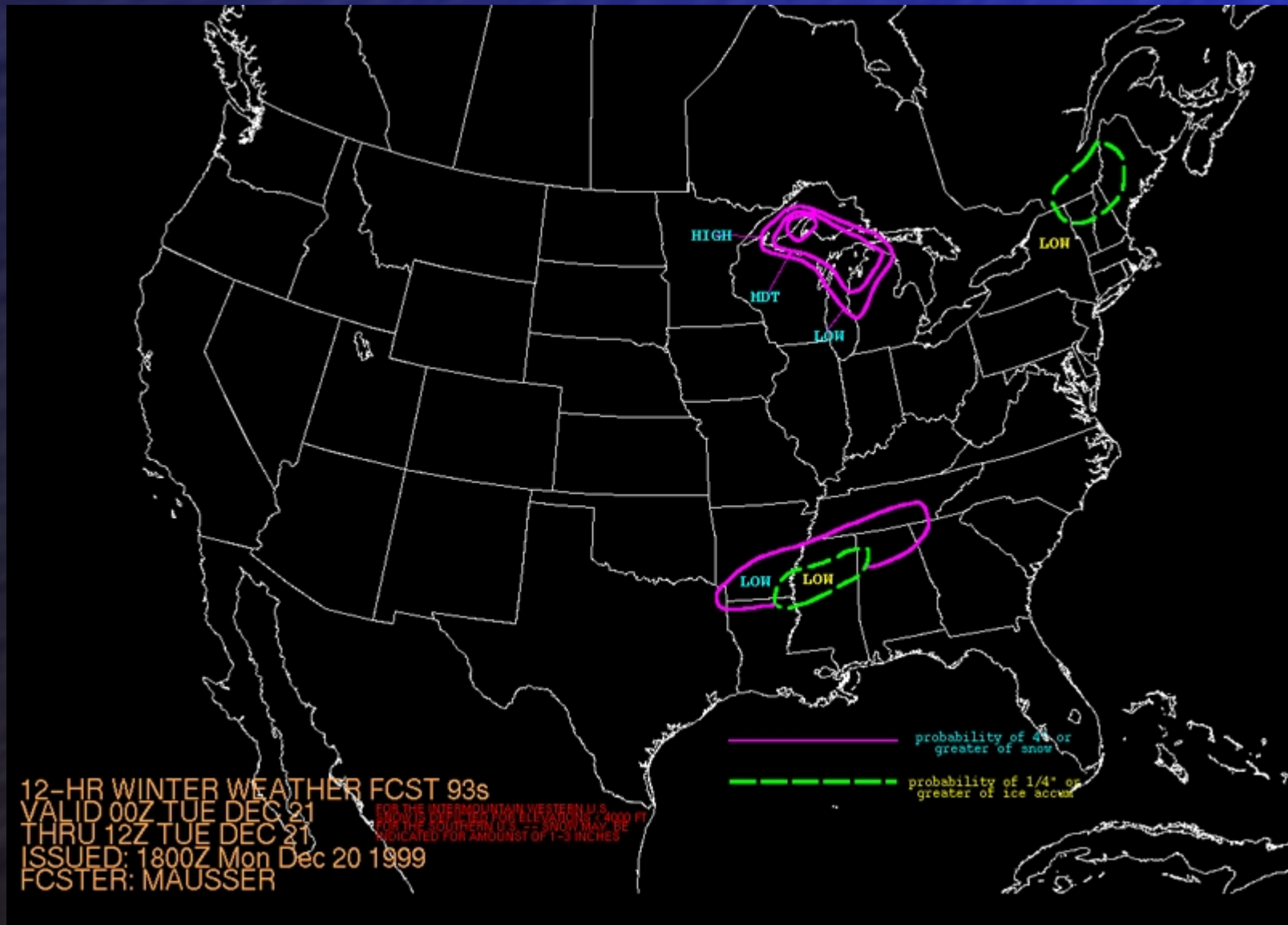
# Threats Assessment Outlook



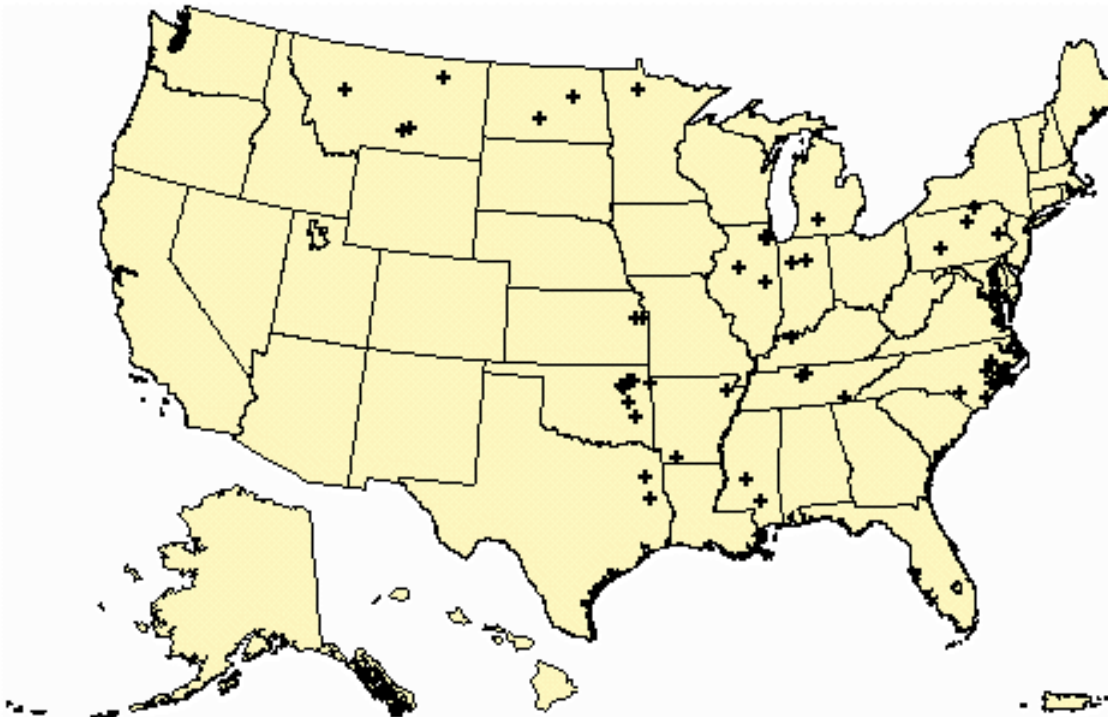
# 24-hr Day 3 Precipitation Forecast



# Winter Weather Guidance Product for Snow & Ice



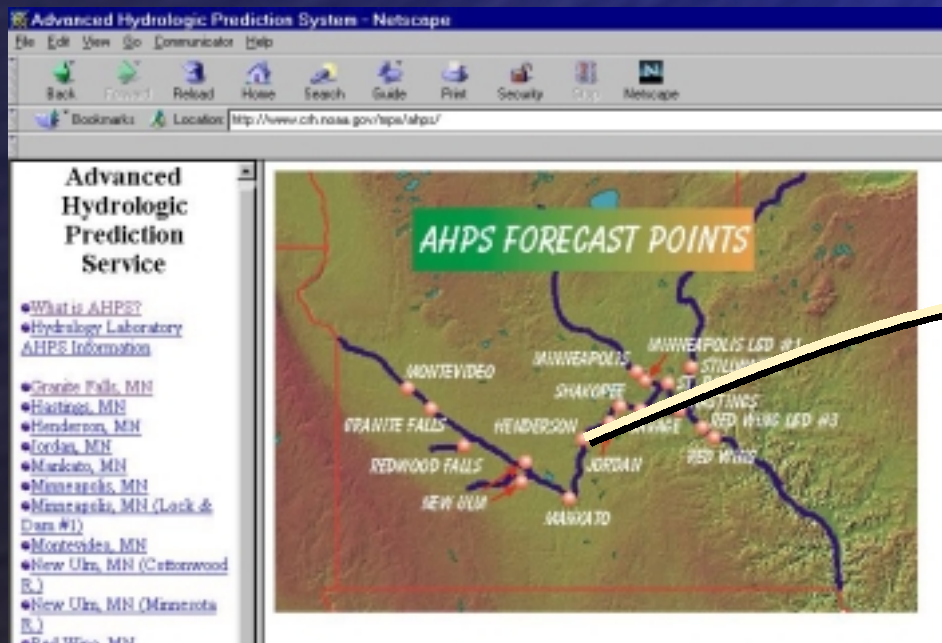
# “StormReady”



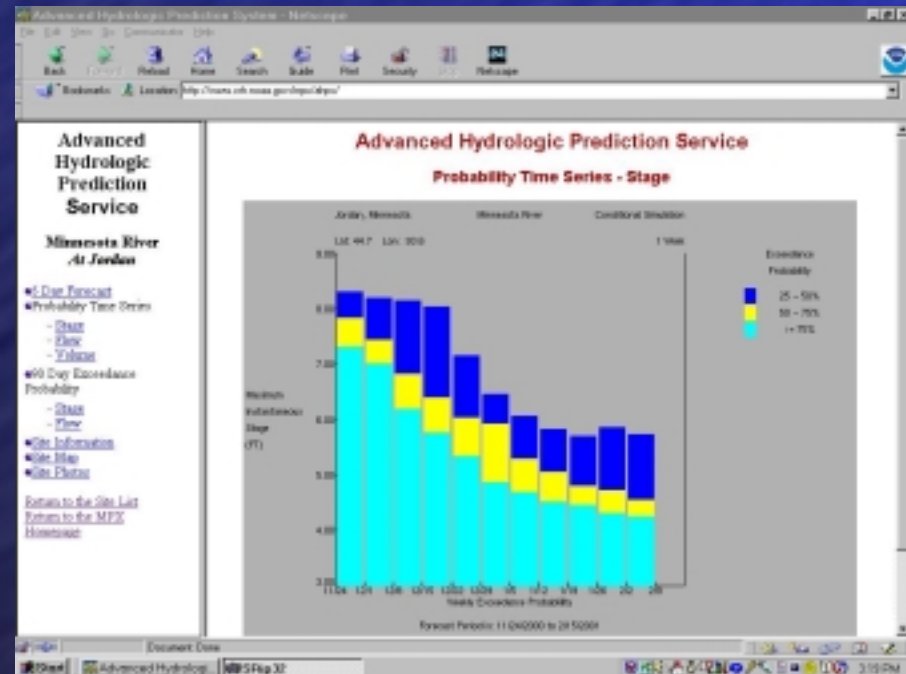
## Program Summary:

- ***Pilot Project started in FY 1999 in Tulsa, OK***
- ***National Program initiated in March 2000***
- ***43 StormReady Communities/Counties***
- ***14 States***

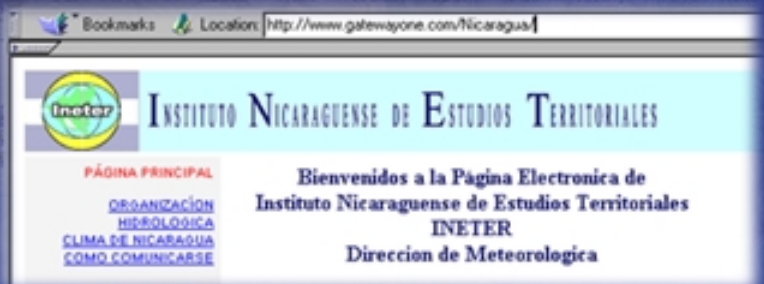
# AHPS for the Minnesota River Basin



<http://www.crh.noaa.gov/mpx/ahps/index.html>



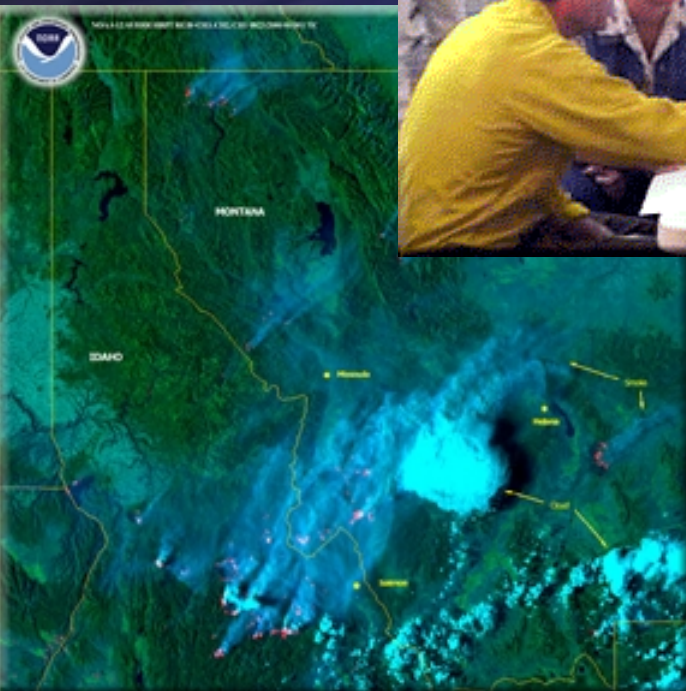
# Develop Spanish Language Internet Home Pages for Meteorological Services of Six Central American Countries



# Provided Support to Wildfires in Southwest & Western U. S.



- Fire season 2000 worst in 50 years
- Total number of wildfires: > 90,000
- Acreage burned: > 7.2 million

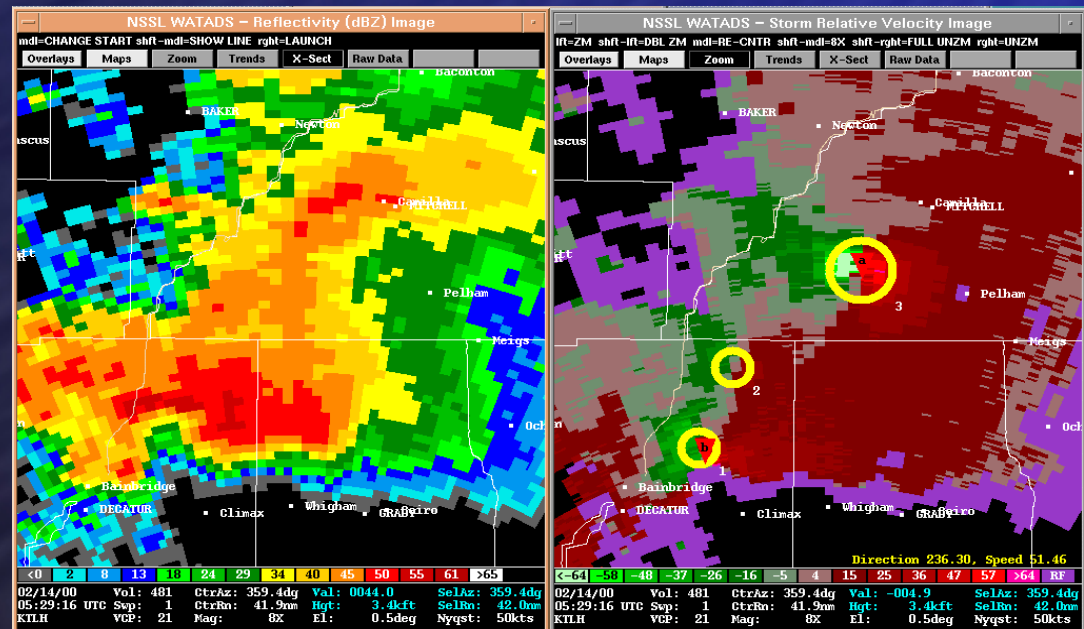
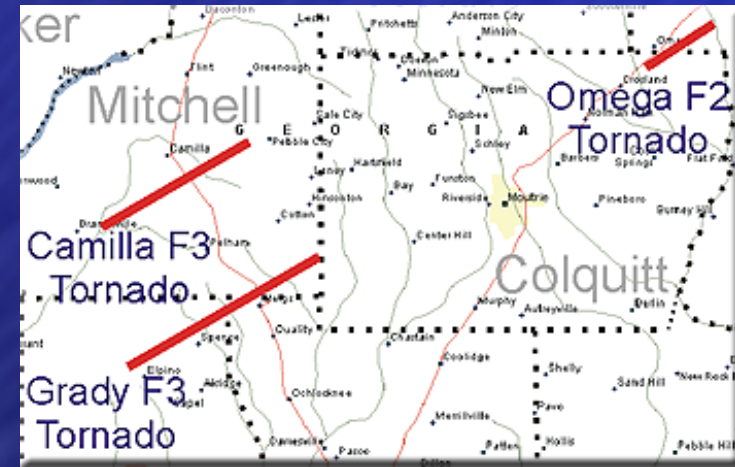


- 41 Incident Meteorologists (IMETS) Utilized at Height of Fires
- Day 1 and Day 2 Fire Weather Outlooks



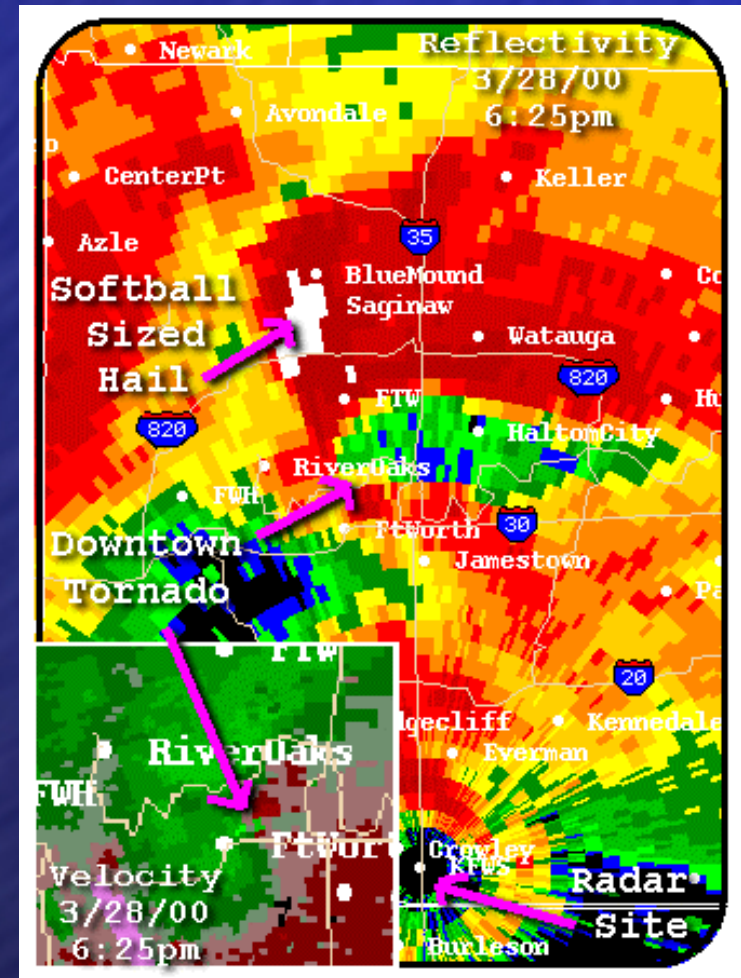
# February Georgia Tornadoes

- February 13/14
- Warnings: 33 - 59 min.  
(3 to 6 times faster than average)
- NWR instrumental in alerting public
- 19 deaths/\$25M damage



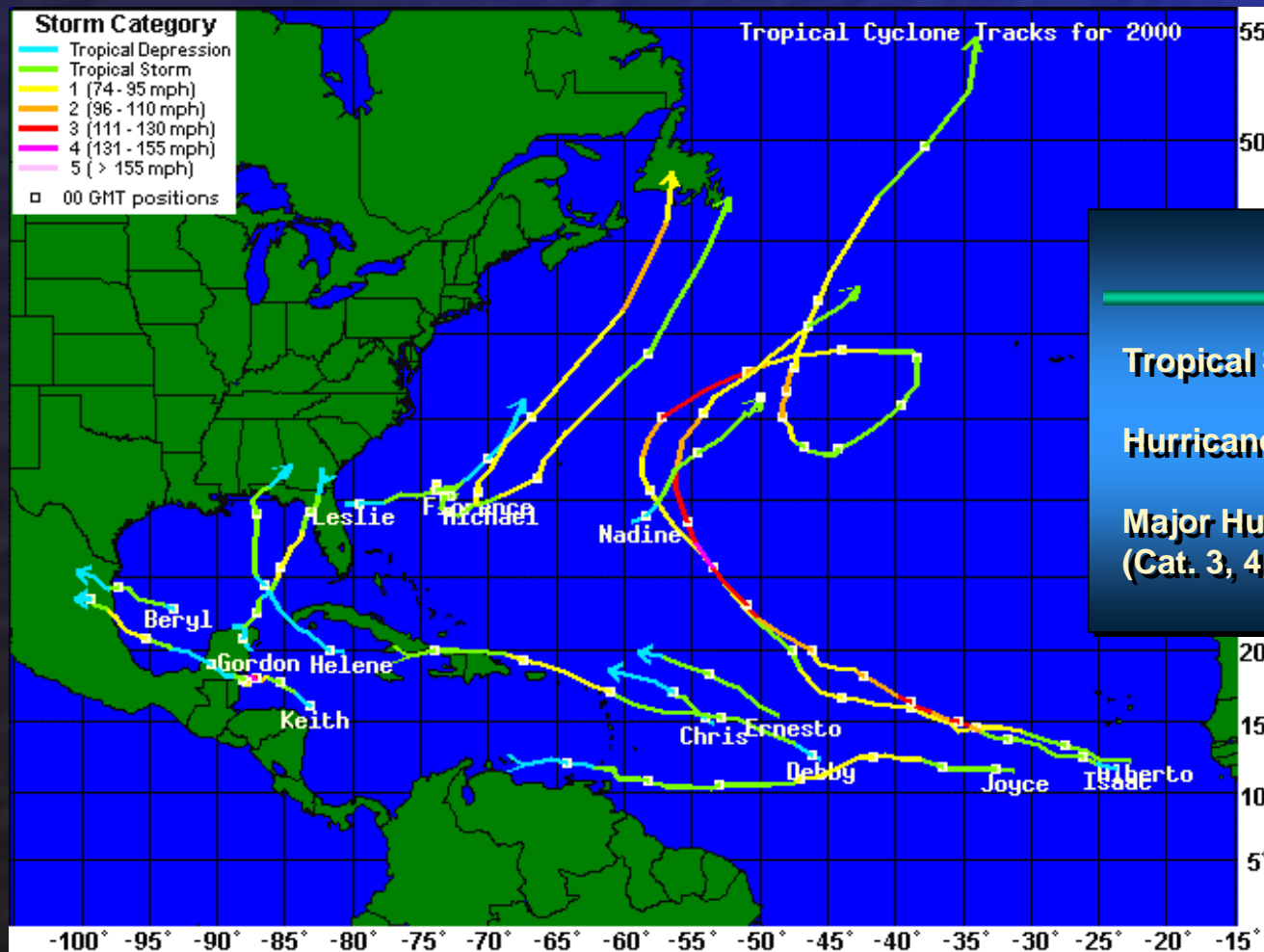
# March Texas Tornadoes

- High likelihood of tornadic activity predicted 12 hrs. before first tornado
- Lead time:
  - *Ft. Worth - 8 min.*
  - *Arlington - 50 min.*
- 5 deaths / \$450M damage



# Hurricane Outlook

- Hurricane Outlook Issued May 2000 Verifies
  - *May 10, 2000 – above average 2000 Atlantic hurricane season*



	Avg.	Actual
Tropical Storms	10	14
Hurricanes	6	8
Major Hurricanes (Cat. 3, 4, 5)	2	3

# **Remaining Office Closure Certifications**

- **Redding, CA**
- **Riverside, CA**
- **Olympia, WA**
- **Wenatchee, WA**
- **Fairbanks, AK**
- **Los Angeles, CA**
- **Meridian, MS**

# Resources – Workforce Demographics



## *NWS Representation*

*FY 2000 Goal was to Increase Representation by 1.0% For Women & Minorities*

	<b>FY 1998 Actual</b>	<b>FY 1999 Actual</b>	<b>FY 2000 Actual</b>	<b>FY 2000 Increase</b>	<b>FY 2001 Target</b>
<b>Men</b>	84.1%	84.0%	83.2%	(0.8%)	82.2%
<b>Women</b>	15.9%	16.0%	16.8%	0.8%	17.8%
<b>Non- Minorities</b>	89.3%	88.9%	88.5%	(0.4%)	87.5%
<b>Minorities</b>	10.7%	11.1%	11.5%	0.4%	12.5%
<b>Targeted Disabilities</b>	0.75%	0.77%	0.79%	0.02%	1.4%

# **Ongoing Efforts to Increase Underrepresentation**

- **Develop Action Plan to Meet/Exceed 1% Goal in FY 2001**
- **Continue Underrepresentation Committee Monthly Meetings to Review Demographics and Issues**
- **Gather Employment/Placement Data for Meteorology/Hydrology Graduates**
- **Expand Student Career Employment Program (SCEP)**
- **Expand Student Temporary Employment Program (STEP)**
- **Expand Relationships with Minority Serving Institutions**
- **Conduct Targeted Training to Expose NWS to Other Candidate Pools**
- **Establish COOP w/ Howard University to Recruit Women and Minorities**

# Resources – Budget

## *Operations, Research and Facilities (ORF)*

Object Class	Plan	Actual	Variance
Labor & Benefits	367,583	365,759	(1,824)
Rent, Comms & Utilities	49,238	42,685	(6,553)
Other Services	74,502	76,607	2,105
Grants	7,117	7,738	621
Equipment	10,058	12,304	2,246
Other	45,476	47,143	1,667
TOTAL	553,974	552,236	(1,738)

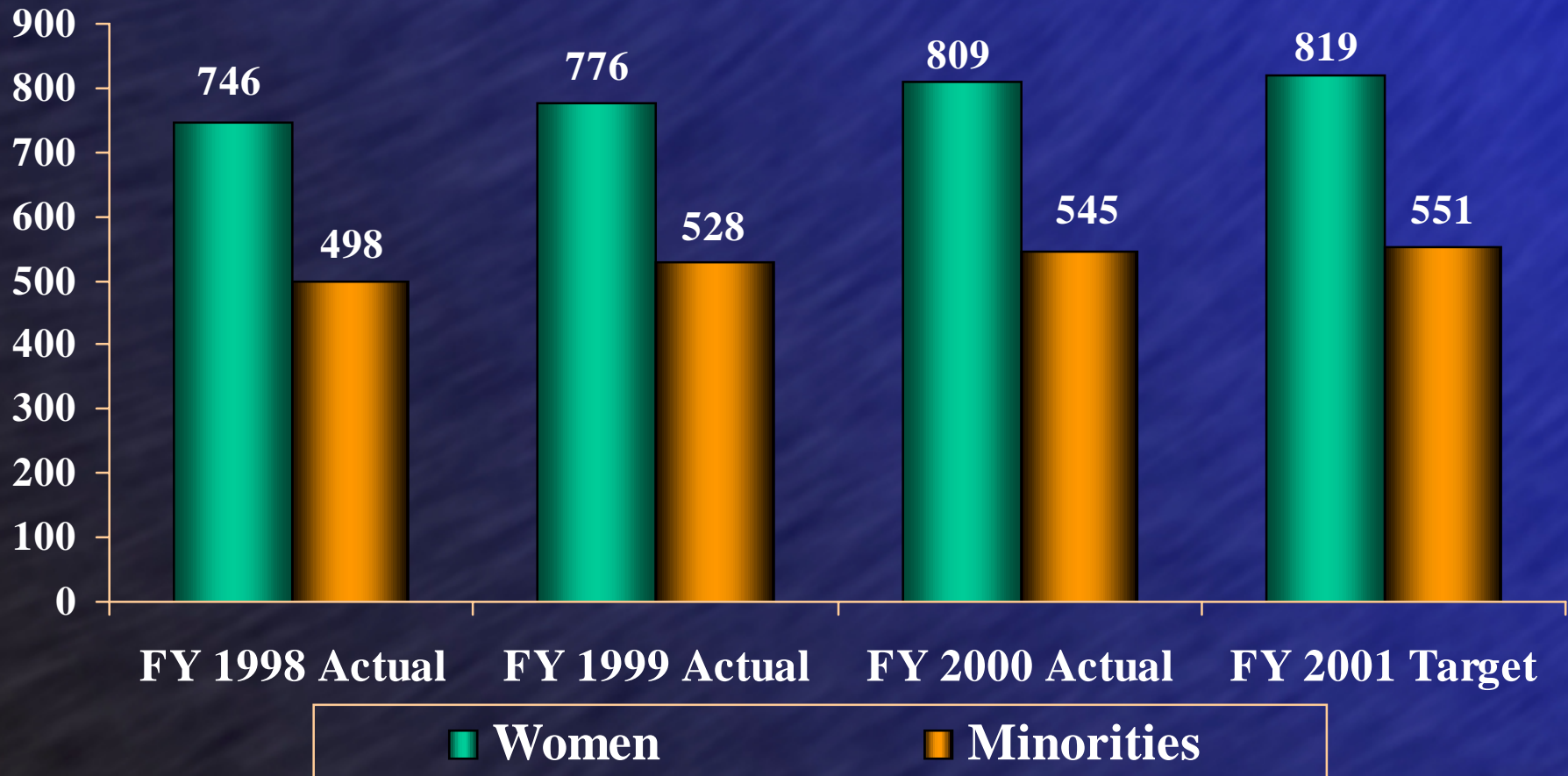
# Resources – Budget

## *Procurement, Acquisition and Construction (PAC)*

Object Class	Plan	Actual	Variance
Labor & Benefits	5,294	5,213	(81)
Rent, Comms & Utilities	454	1,791	1,337
Other Services	27,643	20,624	(7,019)
Grants	215	307	92
Equipment	12,268	14,165	1,897
Other	4,166	5,277	1,111
TOTAL	50,040	47,377	(2,663)

# Resources - Workforce Demographics

## *NWS Representation*



# Minority Serving Institutions

- **Contacted Over 300 MSIs**
- **Conducted Visits to 15 MSIs**
- **Established Partnerships With 4 MSIs**
  - *West Virginia State College*
  - *Clark Atlanta University*
  - *Little Big Horn College*
  - *Dull Knife Memorial College*